

ABSTRACT OF THE DISCLOSURE

The present invention relates to pharmaceutical compositions containing poly(ADP-ribose) glucohydrolase inhibitors, also known as PARG inhibitors, and methods of 5 using the same for inhibiting or decreasing free radical induced cellular energy depletion, cell damage, or cell death. More particularly, the present invention relates to pharmaceutical compositions containing poly (ADP-ribose) glucohydrolase inhibitors such as glucose derivatives; lignin 10 glycosides; hydrolysable tannins including gallotannins and ellagitannins; adenoside derivatives; acridine derivatives including 6,9-diamino-2-ethoxyacridine lactate monohydrate; tilorone analogs including tilorone R10.556, daunomycin or daunorubicin hydrochloride; ellipticine; proflavine; and other 15 PARG inhibitors; and their method of use in treating or preventing diseases or conditions due to free radical induced cellular energy depletion and/or tissue damage resulting from cell damage or death due to necrosis, apoptosis, or combinations thereof.